

Some Nomenclatural Adjustments in the Commelinaceae, Hypoxidaceae, Lauraceae, Rubiaceae, Sapotaceae, and Zingiberaceae of the Malay Peninsula

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ABSTRACT. The following new combinations are provided for the flora of the Malay Peninsula: *Amisכותotype griffithii* (C. B. Clarke) I. M. Turner, *Amisכותotype irritans* (Ridley) I. M. Turner, *Amisכותotype monosperma* (C. B. Clarke) I. M. Turner, *Molineria latifolia* (Dryander) Kurz var. *megacarpa* (Ridley) I. M. Turner, *Litsea ochracea* (Blume) Boerlage var. *oblanceolata* (Gamble) I. M. Turner, *Litsea umbellata* (Loureiro) Merrill var. *fuscotomentosa* (Meisner) I. M. Turner, *Coptophyllum sylvestre* (Ridley) I. M. Turner, *Spermacoce pilulifera* (Ridley) I. M. Turner, *Spermacoce parviceps* (Ridley) I. M. Turner, *Pouteria glabra* (Ridley) I. M. Turner, *Alpinia malaccensis* (Burman) Roscoe var. *nobilis* (Ridley) I. M. Turner, *Alpinia vitellina* (Lindley) Ridley var. *cannaefolia* (Ridley) I. M. Turner, *Etilingera maingayi* (Baker) R. M. Smith var. *longibracteata* (Holtum) I. M. Turner, *Etilingera metriochilos* (Griffith) R. M. Smith var. *rubrostriata* (Holtum) I. M. Turner, *Etilingera metriochilos* var. *major* (Holtum) I. M. Turner, *Etilingera metriochilos* var. *petiolata* (Holtum) I. M. Turner, and *Etilingera metriochilos* var. *grandiflora* (Holtum) I. M. Turner.

In order to bring the nomenclature for the flora of the Malay Peninsula into line with modern systematic treatments for a forthcoming checklist, it is necessary to introduce a number of new combinations at specific and varietal levels in the Commelinaceae, Hypoxidaceae, Lauraceae, Rubiaceae, Sapotaceae, and Zingiberaceae.

COMMELINACEAE

A small group of species of wet tropical and subtropical forest understory herbs of Southeast Asian Commelinaceae has long been referred to the genus *Forrestia* A. Richard (1834). Unfortunately, this name is a later homonym of *Forrestia* Rafinesque (1806), a synonym of *Ceanothus* L. (Rhamnaceae). The next available name for the genus is *Amisכותotype* Hasskarl (1863). The genus is in need of revision, but in the meantime transfers to *Amisכותotype* are made for the three remaining untransferred species occurring in the Malay Peninsula.

Amisכותotype griffithii (C. B. Clarke) I. M. Turner, comb. nov. Basionym: *Forrestia griffithii* C. B. Clarke in A. DC., Monogr. Phan. 3: 236. 1881. SYNTYPES: Peninsular Malaysia. "Malacca," *Maingay 1712* (lectotype, selected here, K); "Ager Punnus" (presumably a misspelling of an orthographic variant of Air Panas, i.e., hot spring), *Griffith 5485* (K).

Amisכותotype irritans (Ridley) I. M. Turner, comb. nov. Basionym: *Forrestia irritans* Ridley, J. Straits Branch Roy. Asiat. Soc. 41: 38. 1903. SYNTYPES: Peninsular Malaysia. "Selangor, on the Tras Route at the 15th mile," *H. N. Ridley s.n.* (lectotype, selected here, SING); "Perak, Bujong Malacca," *H. N. Ridley 9784* (SING); "Sungei Ujong, Bukit Kupayiang," *N. Cantley s.n.* (SING).

Amisכותotype monosperma (C. B. Clarke) I. M. Turner, comb. nov. Basionym: *Forrestia monosperma* C. B. Clarke, Bull. Herb. Boissier 6: 359. 1898. TYPE: "Aus Perak in den botan. Garten zu Pinang und von hier in die Gärten zu Singapur, Buitenzorg u. s. w. eingeführt."

In the description of this species Clarke said that it was originally collected from Perak and grown in the Botanic Gardens at Penang and later Singapore, Bogor, and elsewhere, but he did not mention any herbarium material. There is a single specimen in a type cover at Kew (*Ridley 4599*) annotated "*Forrestia monosperma* sp. nova C. B. Clarke m.s.," but it was collected at Kuala Lumpur, making the sheet a poor candidate for typification. The herbaria at Geneva, Hamburg, and Leiden do not contain any type material of this species (A. Charpin (G), pers. comm.; H.-H. Poppendieck (HBG), pers. comm.; M. Roos (L), pers. comm.).

HYPOXIDACEAE

The genus *Molineria* Colla is frequently included within *Curculigo* Gaertner. But, as Henderson (1987) has written "Though there are similarities

between the two, there are differences in such fundamental attributes as stem system, flowers, fruit and seeds which warrant keeping them distinct." *Curculigo megacarpa* Ridley is the only Malayan species without a combination in *Molineria*. This deficiency is dealt with below.

Molineria latifolia (Dryander) Herbert ex Kurz var. ***megacarpa*** (Ridley) I. M. Turner, comb. nov. Basionym: *Curculigo megacarpa* Ridley, J. Straits Branch Roy. Asiat. Soc. 41: 33. 1903. *Curculigo latifolia* Dryander var. *megacarpa* (Ridley) Geerinck, Fl. Males. ser. I 11 (2): 369. 1993. TYPE: Peninsular Malaysia. "Perak, in forests on the Thaiping Hills," H. N. Ridley 11407 (holotype, SING).

LAURACEAE

It is necessary to correct two minor nomenclatural errors introduced in the account of the Lauraceae of Malaya made by Kochummen (1989). He attempted to reduce *Litsea oblanceolata* Gamble to a variety of *Litsea ochracea* (Blume) Boerlage. However, as no direct reference to the place of publication of the basionym was made, the transfer was invalid. It is validated below.

Litsea ochracea (Blume) Boerlage var. ***oblanceolata*** (Gamble) Kochummen ex I. M. Turner, comb. nov. Basionym: *Litsea oblanceolata* Gamble, Bull. Misc. Inform. 1910: 362. 1910. SYNTYPES: Peninsular Malaysia. "Perak: moist places near Larut," King's collector (Kunstler) 2020 (lectotype, selected here, K); King's collector 1952 (K).

Kochummen (1989) erroneously assigned the authorship of *Litsea umbellata* var. *fuscotomentosa* to Meisner, referring to the publication where Meisner described *Tetranthera amara* var. *fuscotomentosa*, without citing the latter name. The combination has never formally been made. The necessary transfer of Meisner's variety to *Litsea umbellata* is completed below.

Litsea umbellata (Loureiro) Merrill var. ***fuscotomentosa*** (Meisner) I. M. Turner, comb. nov. Basionym: *Tetranthera amara* (Blume) Nees var. *fuscotomentosa* Meisner in DC., Prod. 15: 190. 1864. *Litsea amara* Blume var. *fuscotomentosa* (Meisner) Hooker f., Fl. Brit. India 5: 163. 1877. SYNTYPES: Peninsular Malaysia. Penang, Phillips s.n. (lectotype, selected here, K); Zolling n. 467 (not seen).

RUBIACEAE

In his account of one of the early plant collecting trips to the east coast of the Malay Peninsula, Ridley (1893) described a species in the new rubiaceous genus *Pomazota*. Bremekamp (1947) recognized that this species belonged in the same genus as species already described in *Coptophyllum* Korthals. However, as Korthals's name was predated by *Coptophyllum* G. Gardner, Bremekamp accepted *Pomazota* as the correct name for the larger genus. Subsequently, however, *Coptophyllum* Korthals has been accepted as a conserved name, and the type species of *Pomazota* is duly transferred to it below.

When describing *Pomazota sylvestris*, Ridley wrote that the plant was "plentiful in open pathways in Pulau Tawar woods" but did not refer to any herbarium specimens. The excellent plate accompanying the description could be used as the type, but there is one collection of Ridley's in SING from Pulau Tawar predating the publication. This has been annotated by C. X. Furtado as "the type of the species and the genus." This specimen is now formally designated the lectotype of *Pomazota sylvestris* Ridley and hence also that of the genus *Pomazota* Ridley.

Coptophyllum sylvestre (Ridley) I. M. Turner, comb. nov. Basionym: *Pomazota sylvestris* Ridley, Trans. Linn. Soc. London, Bot. 3: 308. 1893. TYPE: Peninsular Malaysia. Pahang, "plentiful in open pathways in Pulau Tawar woods," H. N. Ridley 2230 (lectotype, selected here, SING).

The majority of recent treatments, e.g., Verdcourt (1976) and Fosberg et al. (1993), have reduced *Borreria* G. F. W. Meyer to a section of *Spermacoce* L. Two apparently endemic species, described from Malaya by Ridley, require combinations in *Spermacoce*.

Spermacoce pilulifera (Ridley) I. M. Turner, comb. nov. Basionym: *Borreria pilulifera* Ridley, J. Straits Branch Roy. Asiat. Soc. 86: 299. 1922. TYPE: Peninsular Malaysia. "Roadsides, Selangor, Klang Gates," 1 Jan. 1921, H. N. Ridley (holotype, K).

Spermacoce parviceps (Ridley) I. M. Turner, comb. nov. Basionym: *Borreria parviceps* Ridley, J. Straits Branch Roy. Asiat. Soc. 86: 299. 1922. TYPE: Peninsular Malaysia. "Roadsides, Negri Sembilan, Bukit Tangga Pass," 23 Dec. 1920, H. N. Ridley (holotype, SING; isotype, K).

SAPOTACEAE

In order to follow Pennington's (1991) generic classification of the Sapotaceae, it is necessary to transfer the following, narrowly endemic, species from the mountains of Malaya to *Pouteria*.

Pouteria glabra (Ridley) I. M. Turner, comb. nov. Basionym: *Sideroxylon glabrum* Ridley, J. Straits Branch Roy. Asiat. Soc. 61: 28. 1912. *Planchonella glabra* (Ridley) Lam, Bull. Jard. Bot. Buitenzorg 7: 217. 1925. TYPE: Peninsular Malaysia. "Selangor: Sempang Mines," H. N. Ridley 15770 (holotype, SING (not located recently); isotype, K).

ZINGIBERACEAE

A recent tendency to recognize larger, more inclusive genera in the Zingiberaceae has meant that several varieties of species recognized in Malaya by Holttum (1950) need to be transferred to the appropriate positions in *Alpinia* and *Etlingera*.

Alpinia malaccensis (Burman) Roscoe var. ***nobilis*** (Ridley) I. M. Turner, comb. nov. Basionym: *Alpinia nobilis* Ridley, J. Straits Branch Roy. Asiat. Soc. 32: 169. 1899. *Catimbium malaccense* (Burman) Holttum var. *nobilis* (Ridley) Holttum, Gard. Bull. Singapore 13: 155. 1950. TYPE: Singapore. Cultivated in Botanic Gardens, H. N. Ridley 4617 (lectotype, selected by Smith (1990), K).

Alpinia vitellina (Lindley) Ridley var. ***cannaefolia*** (Ridley) I. M. Turner, comb. nov. Basionym: *Alpinia cannaefolia* Ridley, J. Straits Branch Roy. Asiat. Soc. 32: 174. 1899. *Cenolophon vitellinum* (Lindley) Horan var. *cannaefolium* (Ridley) Holttum, Gard. Bull. Singapore 13: 138. 1950. TYPE: Peninsular Malaysia. "Selangor, Dusun Tua," May 1896, H. N. Ridley (lectotype, selected by Smith (1990), K; isolectotype, SING).

Etlingera maingayi (Baker) R. M. Smith var. ***longibracteata*** (Holttum) I. M. Turner, comb. nov. Basionym: *Phaeomeria maingayi* (Baker) K. Schumann var. *longibracteata* Holttum, Gard. Bull. Singapore 13: 180. 1950. TYPE: Peninsular Malaysia. "Pahang, Tembeling," M. R. Henderson SFN 24522 (holotype, SING).

Etlingera metriochilos (Griffith) R. M. Smith var. ***rubrostriata*** (Holttum) I. M. Turner, comb. nov. Basionym: *Achasma sphaerocephalum* (Baker) Holttum var. *rubrostriatum* Holttum, Gard. Bull. Singapore 13: 190. 1950. TYPE: Peninsular Malaysia. "Selangor, near the Gap," E. J. H. Corner SFN 30776 (holotype, SING).

Etlingera metriochilos (Griffith) R. M. Smith var. ***major*** (Holttum) I. M. Turner, comb. nov. Basionym: *Achasma sphaerocephalum* (Baker) Holttum var. *majus* Holttum, Gard. Bull. Singapore 13: 190. 1950. TYPE: Peninsular Malaysia. "Trengganu, Bukit Kajang, Kemaman," E. J. H. Corner SFN 30205 (holotype, SING).

Etlingera metriochilos (Griffith) R. M. Smith var. ***petiolata*** (Holttum) I. M. Turner, comb. nov. Basionym: *Achasma sphaerocephalum* (Baker) Holttum var. *petiolatum* Holttum, Gard. Bull. Singapore 13: 191. 1950. SYNTYPES: Peninsular Malaysia. "Johore, Ulu Segun, G. Panti," E. J. H. Corner SFN 30745 (lectotype, selected here, SING); "Perak, G. Keledang," H. N. Ridley 9575 (SING).

Etlingera metriochilos (Griffith) R. M. Smith var. ***grandiflora*** (Holttum) I. M. Turner, comb. nov. Basionym: *Achasma sphaerocephalum* (Baker) Holttum var. *grandiflorum* Holttum, Gard. Bull. Singapore 13: 191. 1950. TYPE: Peninsular Malaysia. "Trengganu, Bukit Kajang, Kemaman," E. J. H. Corner SFN 30234 (holotype, SING).

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